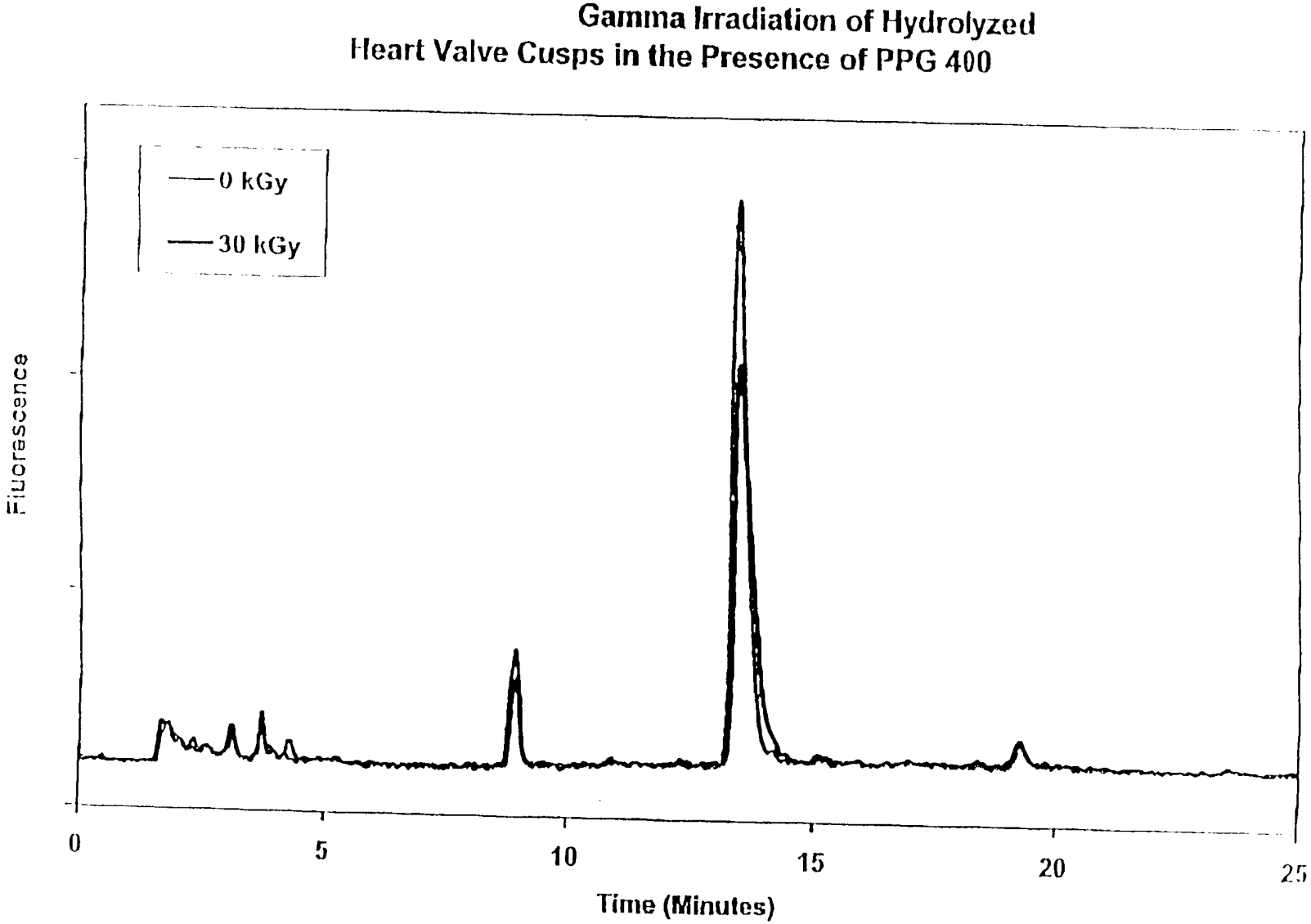

Gamma Irradiation of Hydrolyzed
Heart Valve Cusps in the Presence of PPG 400
0 kGy
30 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 1a

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400 and 125 mM Trolox C

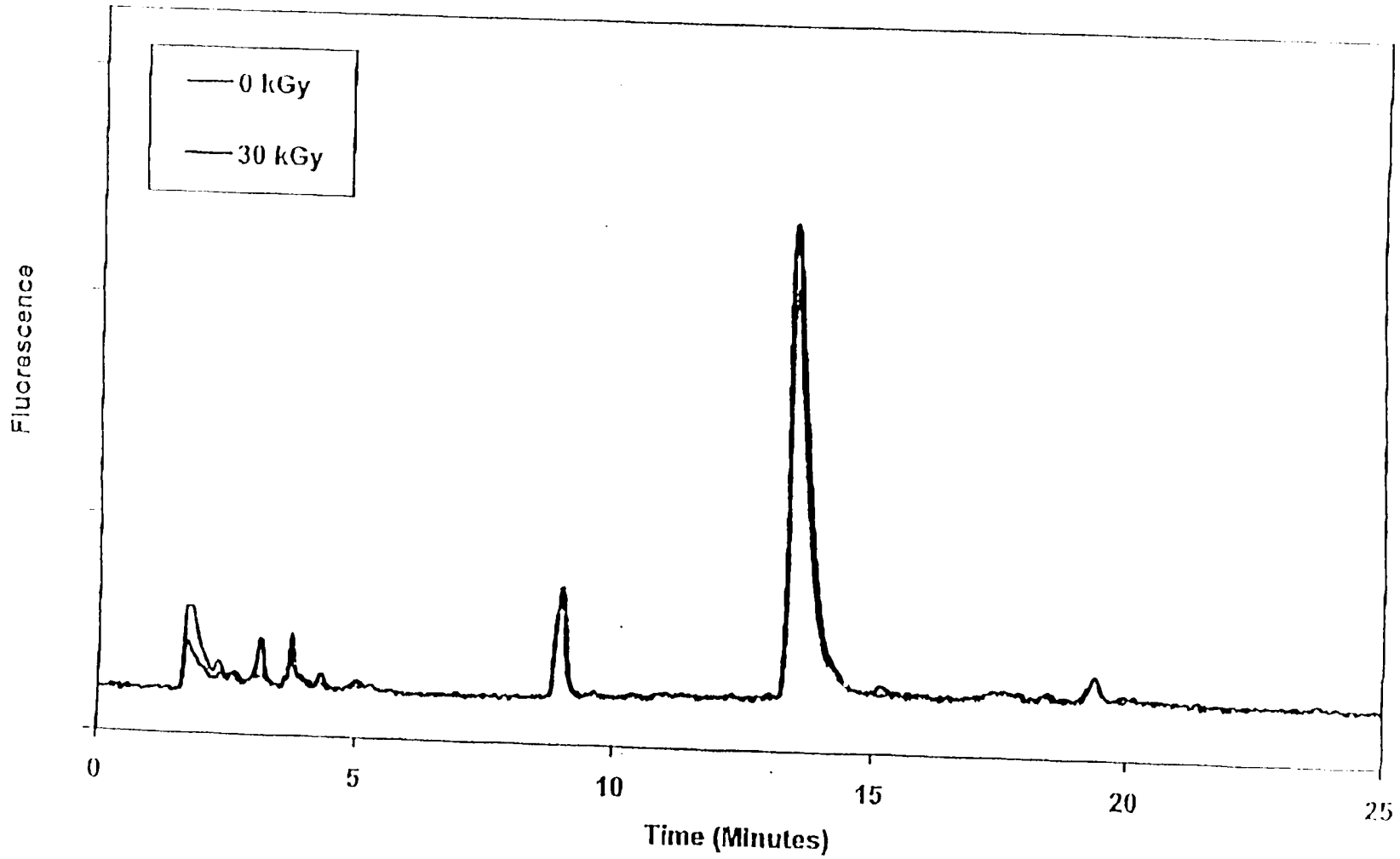


Figure 1b

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400 and a Stabilizer Mixture of 62.5mM TroloxC, 100mM Lipoic Acid, 100mM Coumaric Acid, and 100mM n-Propyl Gallate

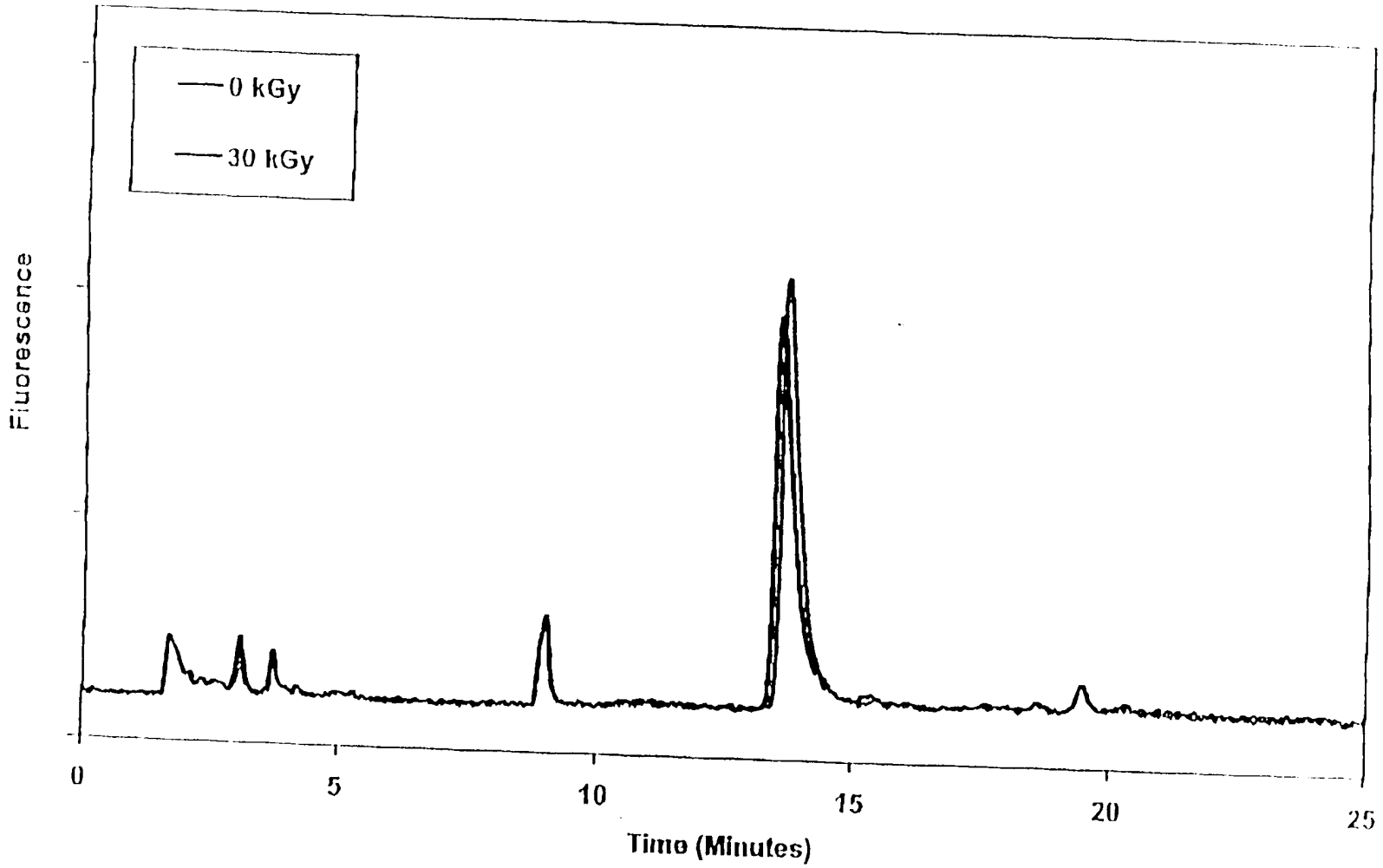
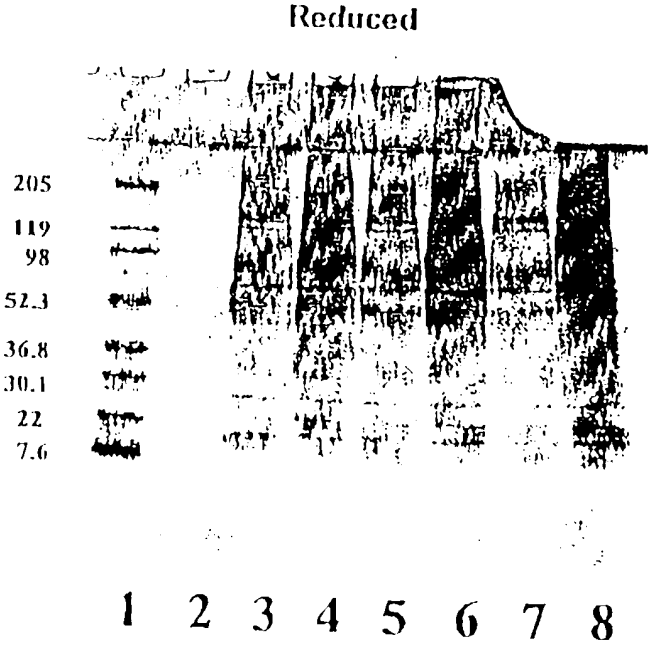


Figure 1c

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of PPG400 with Various Stabilizers



1. Molecular Weight Markers
2. Blank
3. PPG400, 0 kGy
4. PPG400, 30 kGy
5. PPG400 and TroloxC, 0 kGy
6. PPG400 and TroloxC, 30 kGy
7. PPG400 and a Cocktail of TroloxC, Lipoic Acid, Coumaric Acid, and n-Propyl Gallate, 0 kGy
8. PPG400 and a Cocktail of TroloxC, Lipoic Acid, Coumaric Acid, and n-Propyl Gallate, 30kGy

Figure 1d

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PBS

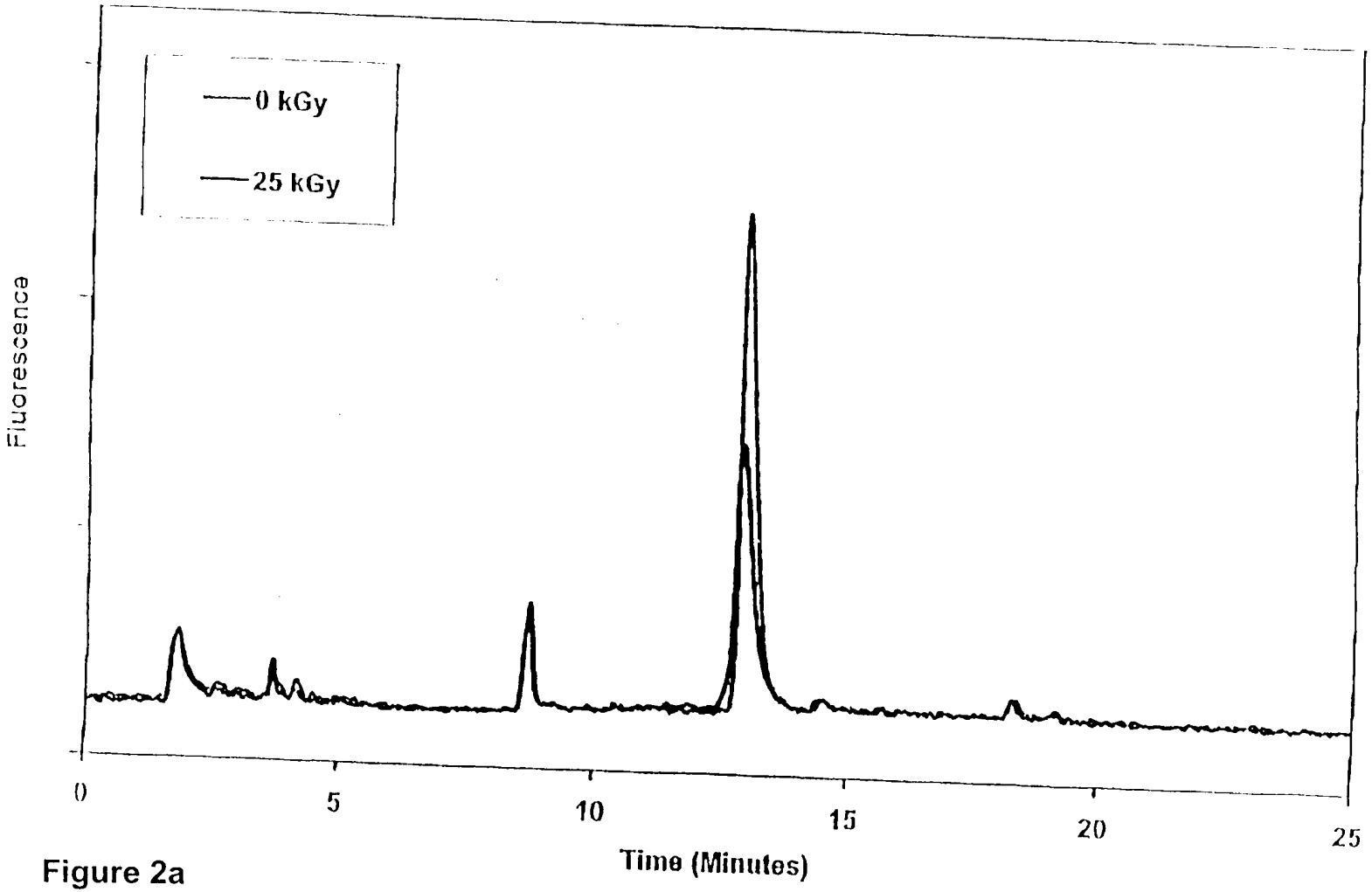


Figure 2a

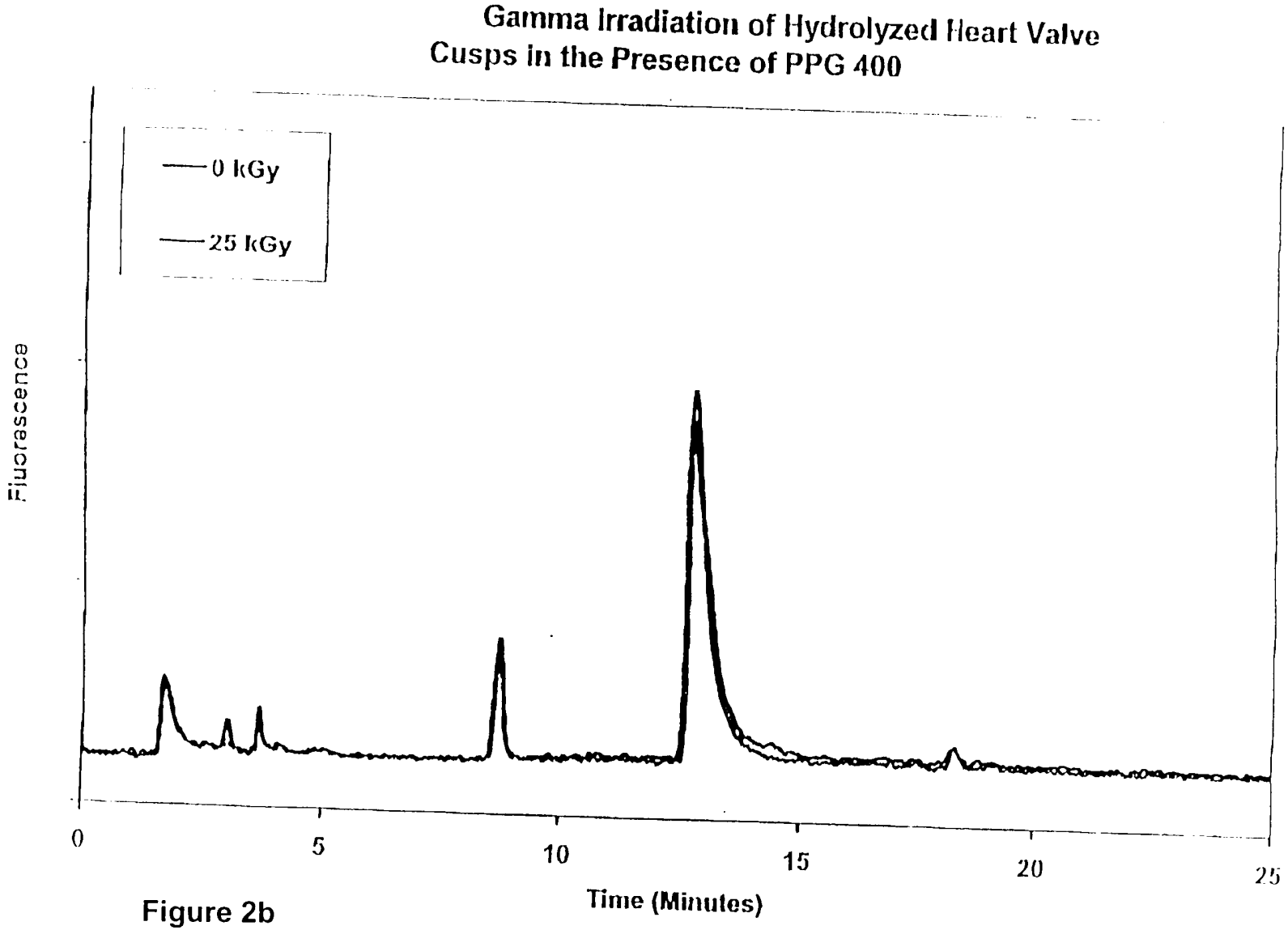

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400
0 kGy
25 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 2b

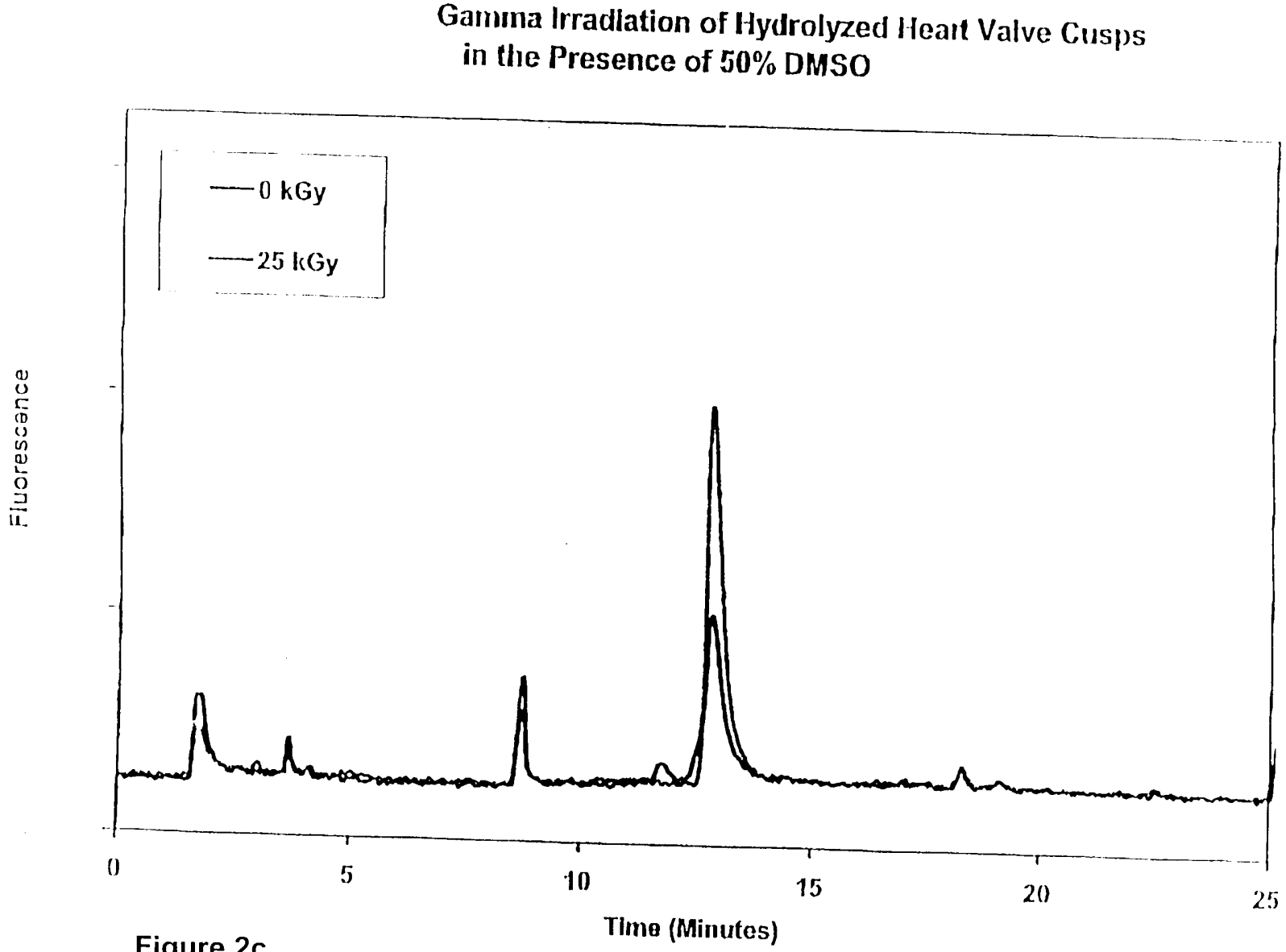

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
in the Presence of 50% DMSO
0 kGy
25 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 2c

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO and a Stabilizer Mixture of 167 mM Ascorbate, 166 mM Coumaric Acid, and 100 mM n-Propyl Gallate

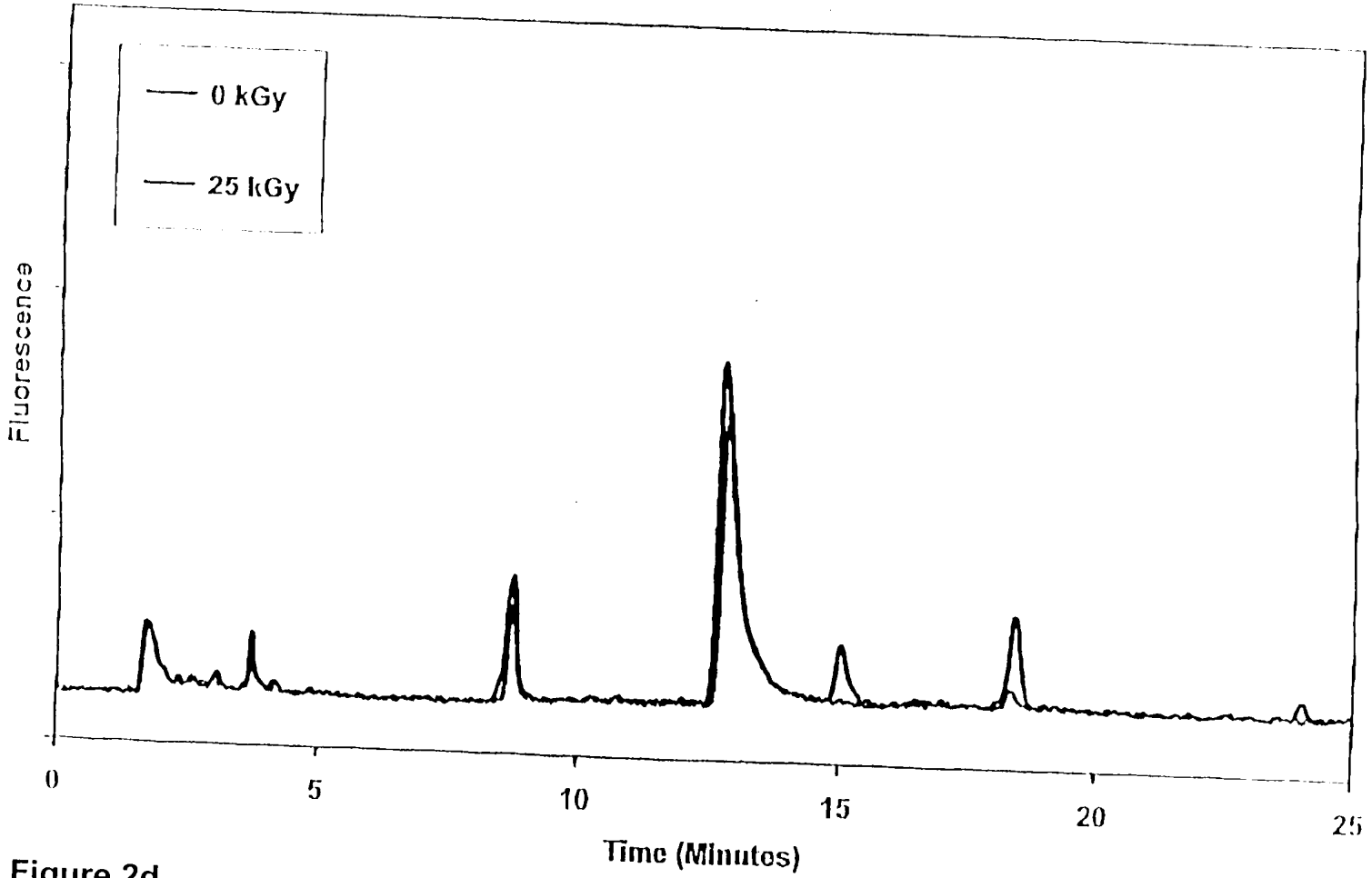
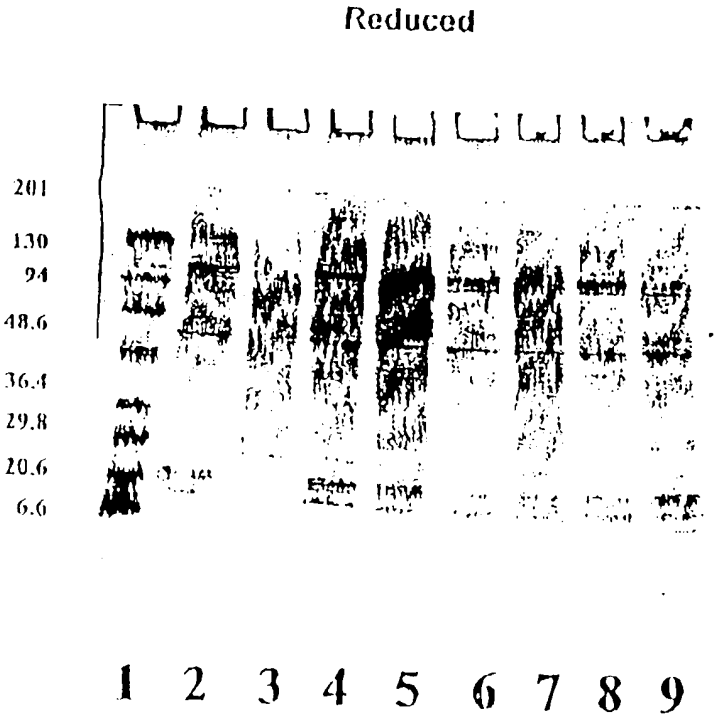


Figure 2d

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents



1. Molecular Weight Markers

2. PBS, 0 kGy

3. PBS, 25 kGy

4. PPG400, 0 kGy

5. PPG400, 25 kGy

6. 50% DMSO, 0 kGy

7. 50% DMSO, 25 kGy

8. 50% DMSO and Cocktail of Ascorbate, Coumaric Acid, and n-Propyl Gallate, 0 kGy

9. 50% DMSO and Cocktail of Ascorbate, Coumaric Acid, and n-Propyl Gallate, 25 kGy

Figure 2e

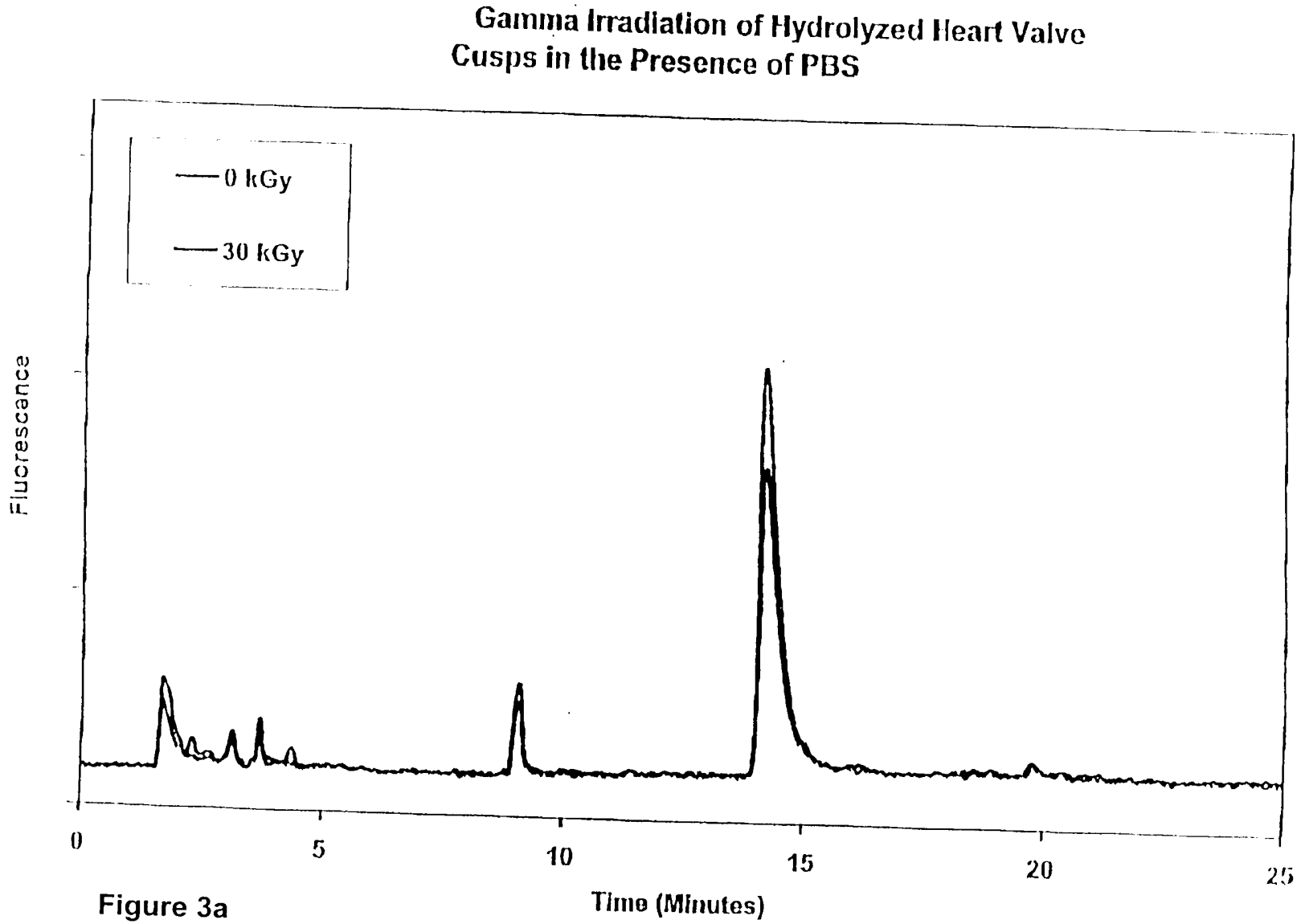

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PBS
0 kGy
30 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 3a

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of a Cryopreservative (Containing Approximately 20% DMSO)

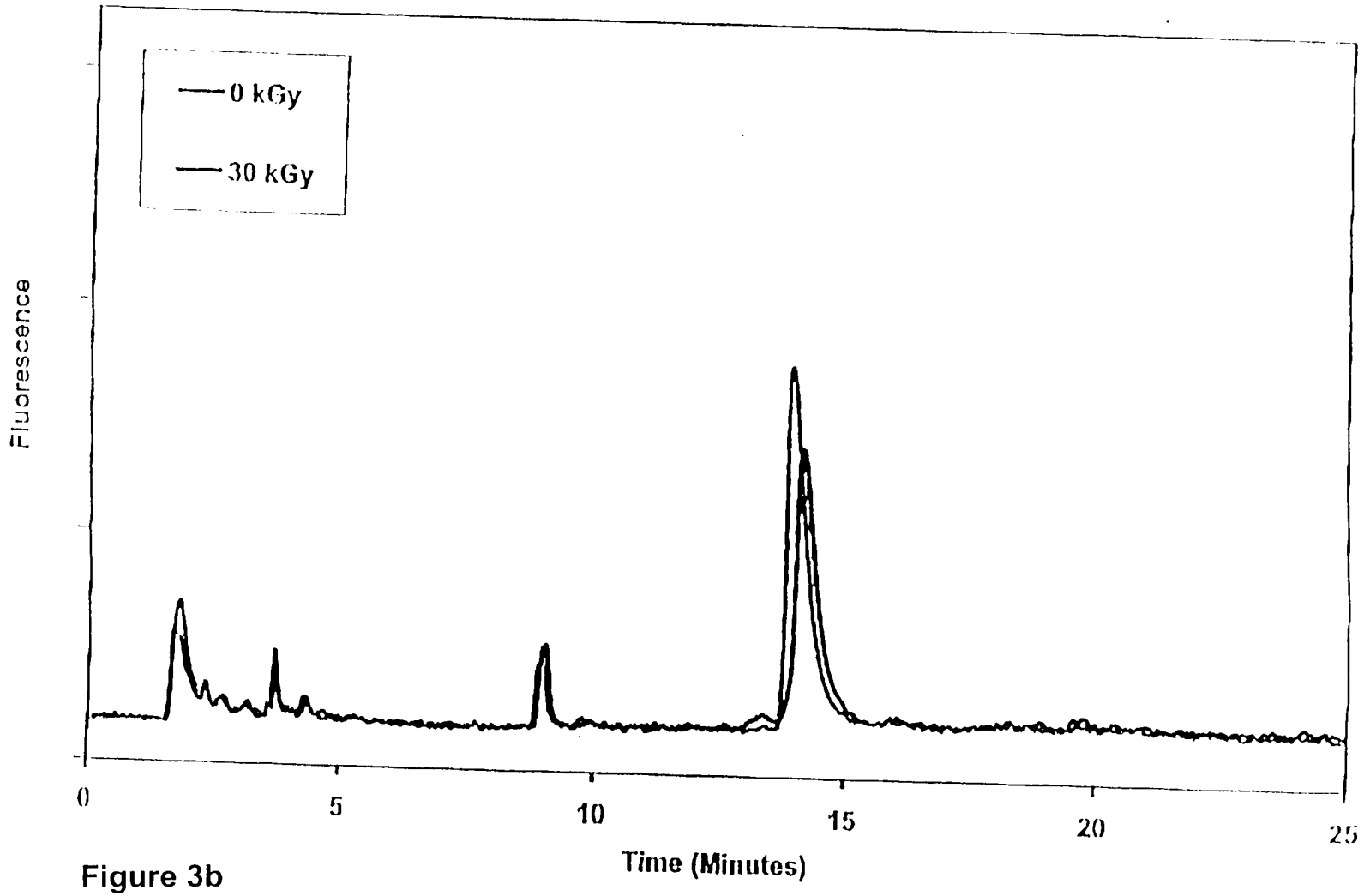


Figure 3b

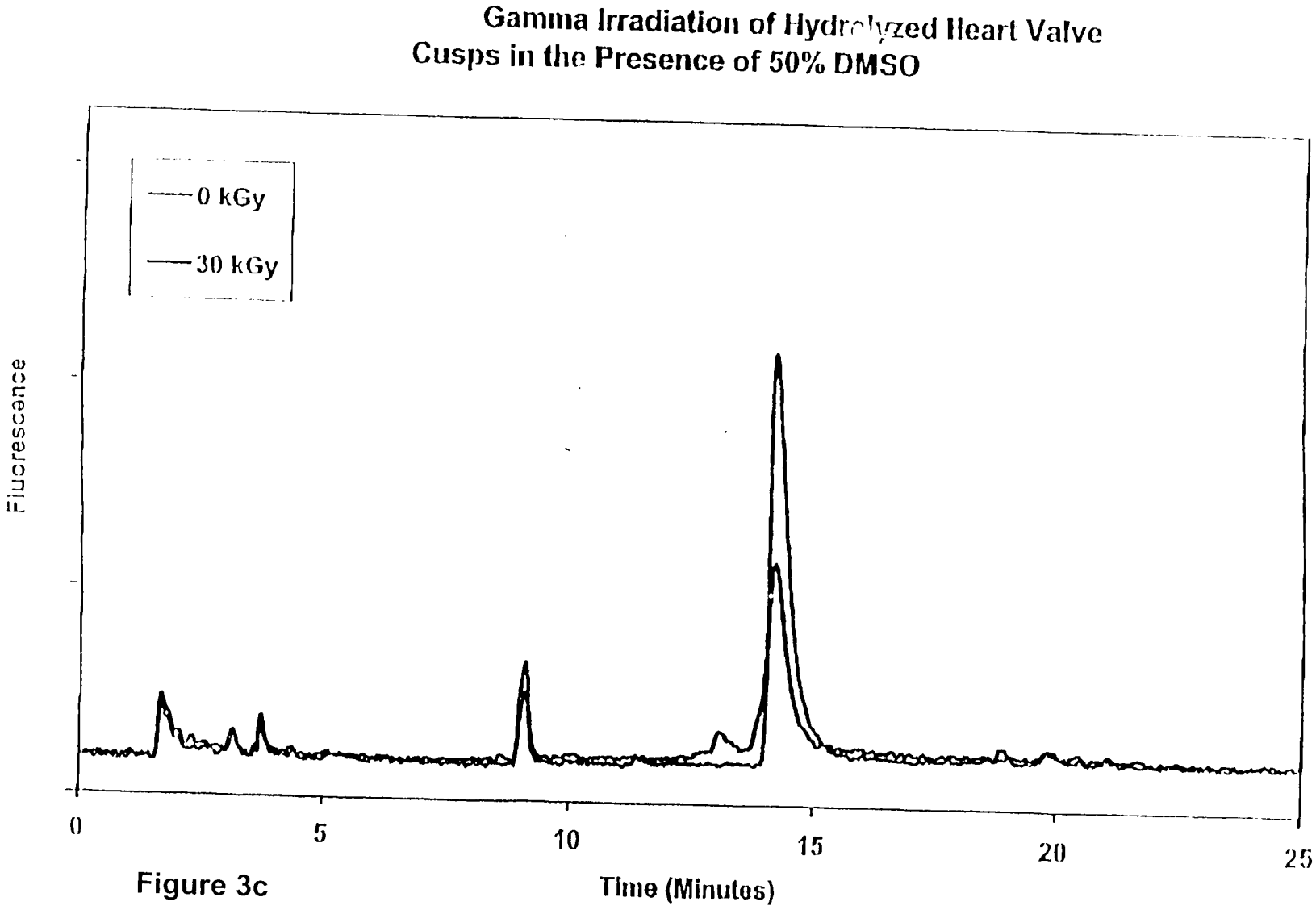

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO
0 kGy
30 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 3c

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO and Ascorbate

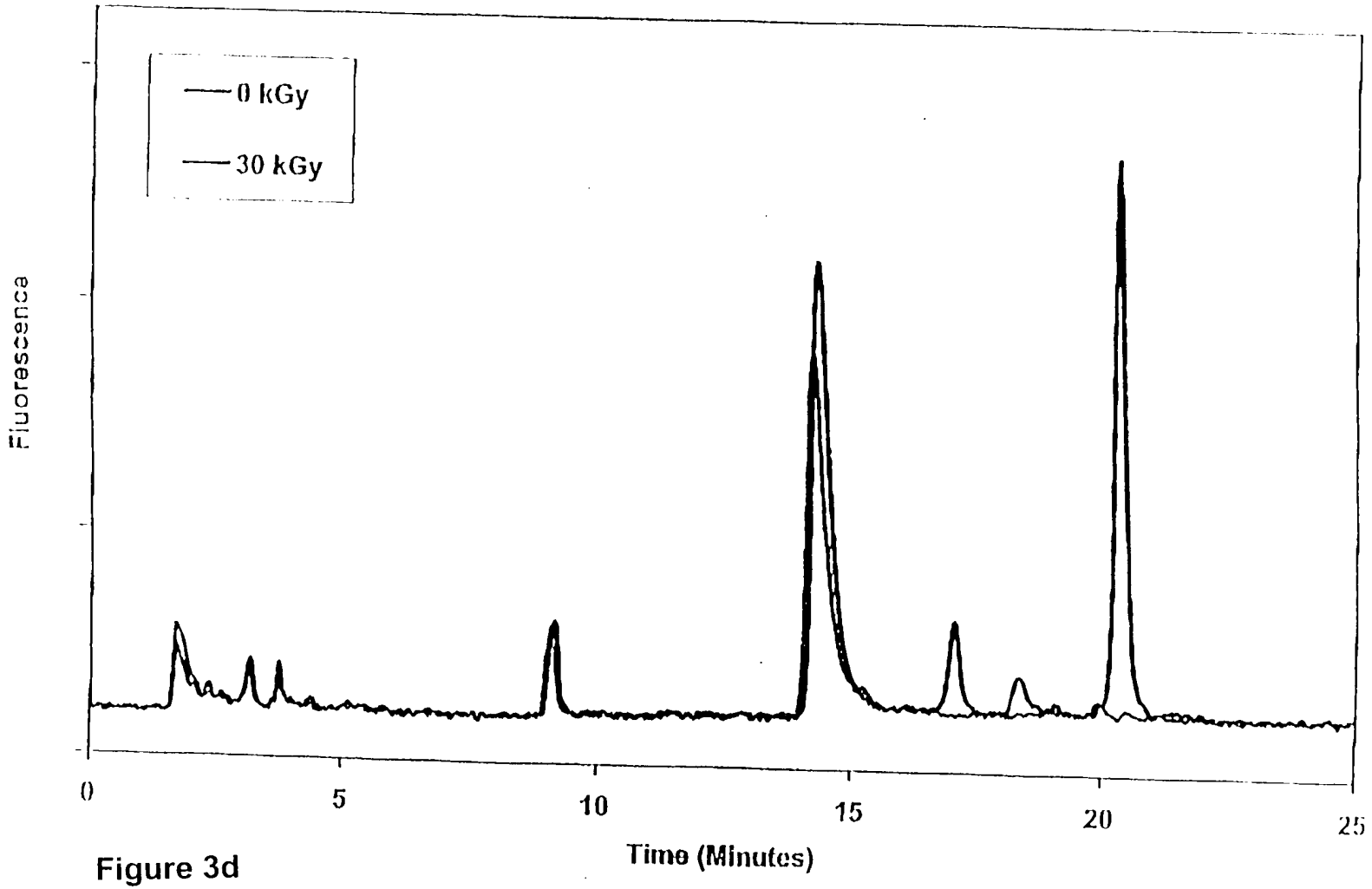
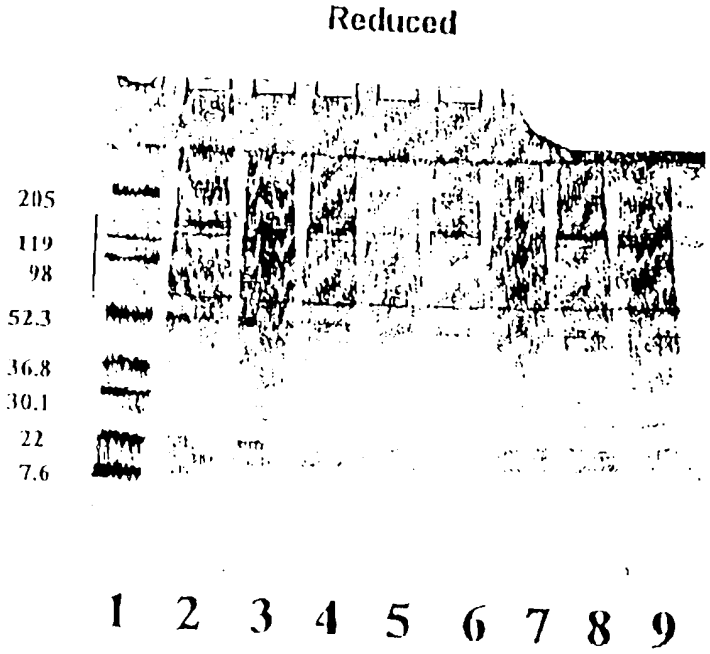


Figure 3d

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents



1. Molecular Weight Markers

2. Cryopreservative, 0 kGy
3. Cryopreservative, 30 kGy

4. PBS, 0 kGy
5. PBS, 30 kGy

6. 50% DMSO, 0 kGy
7. 50% DMSO, 30 kGy

8. 50% DMSO and Ascorbate, 0 kGy
9. 50% DMSO and Ascorbate, 30 kGy

Figure 3e

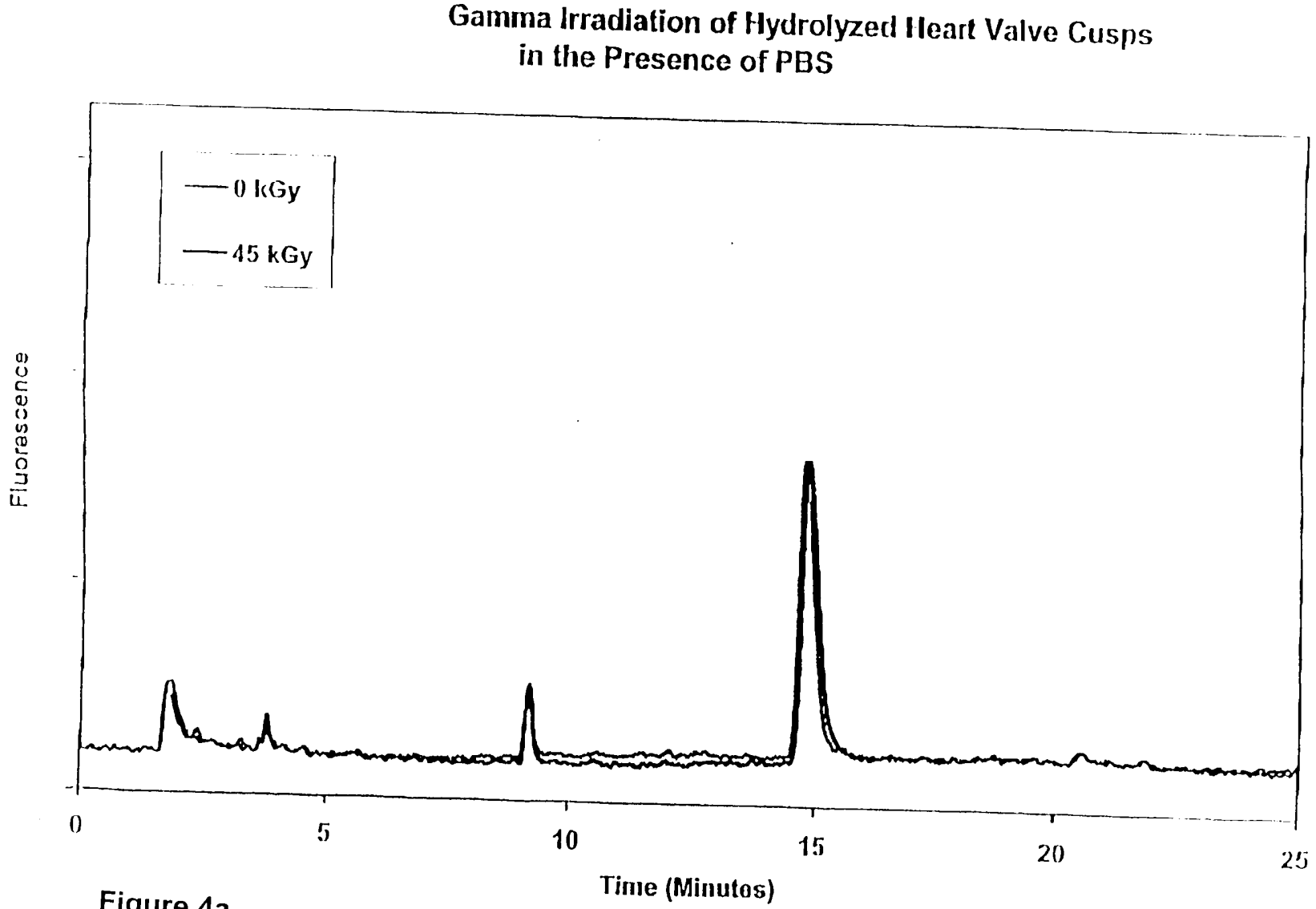

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
in the Presence of PBS
0 kGy
45 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 4a

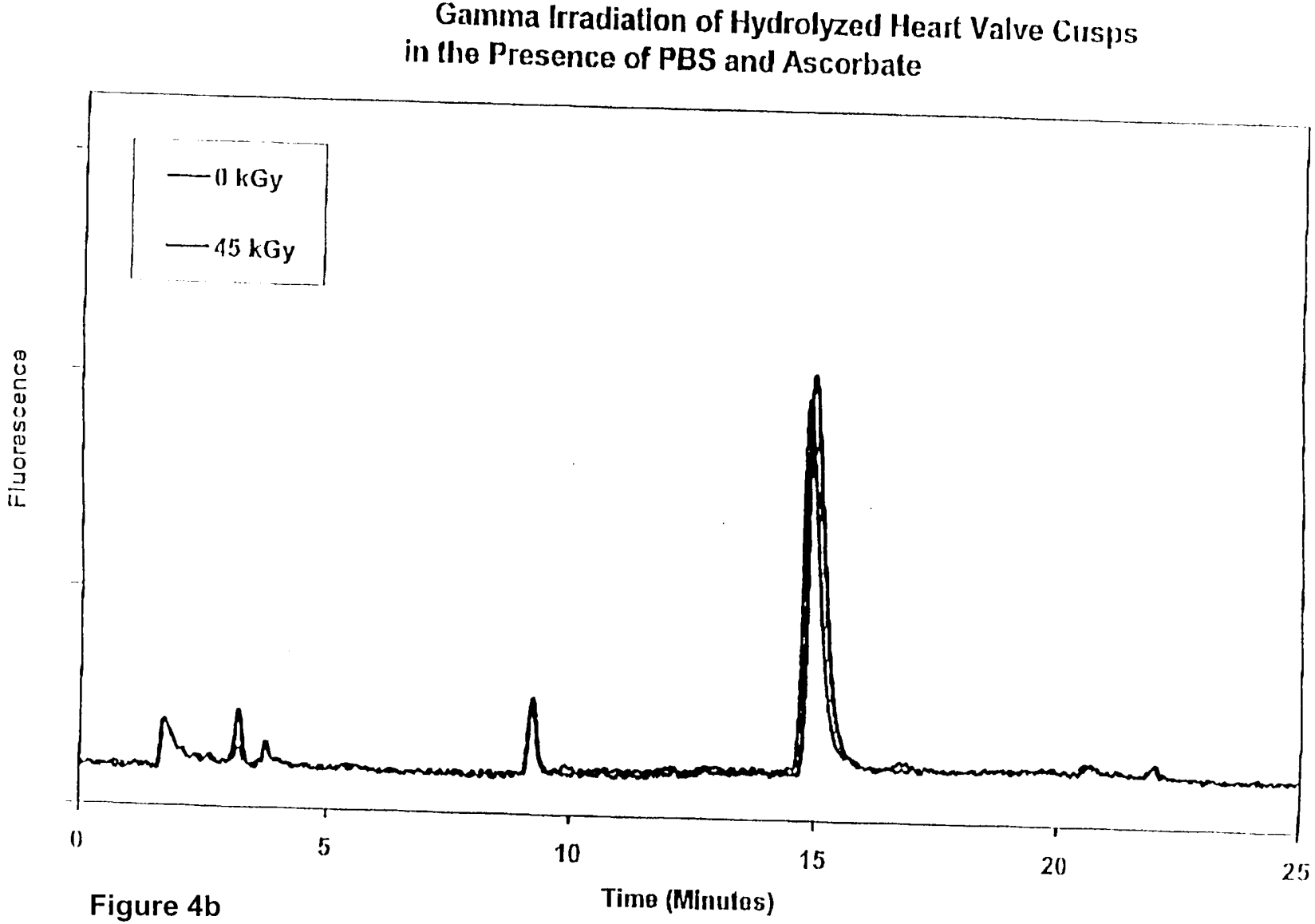

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
in the Presence of PBS and Ascorbate
0 kGy
45 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 4b

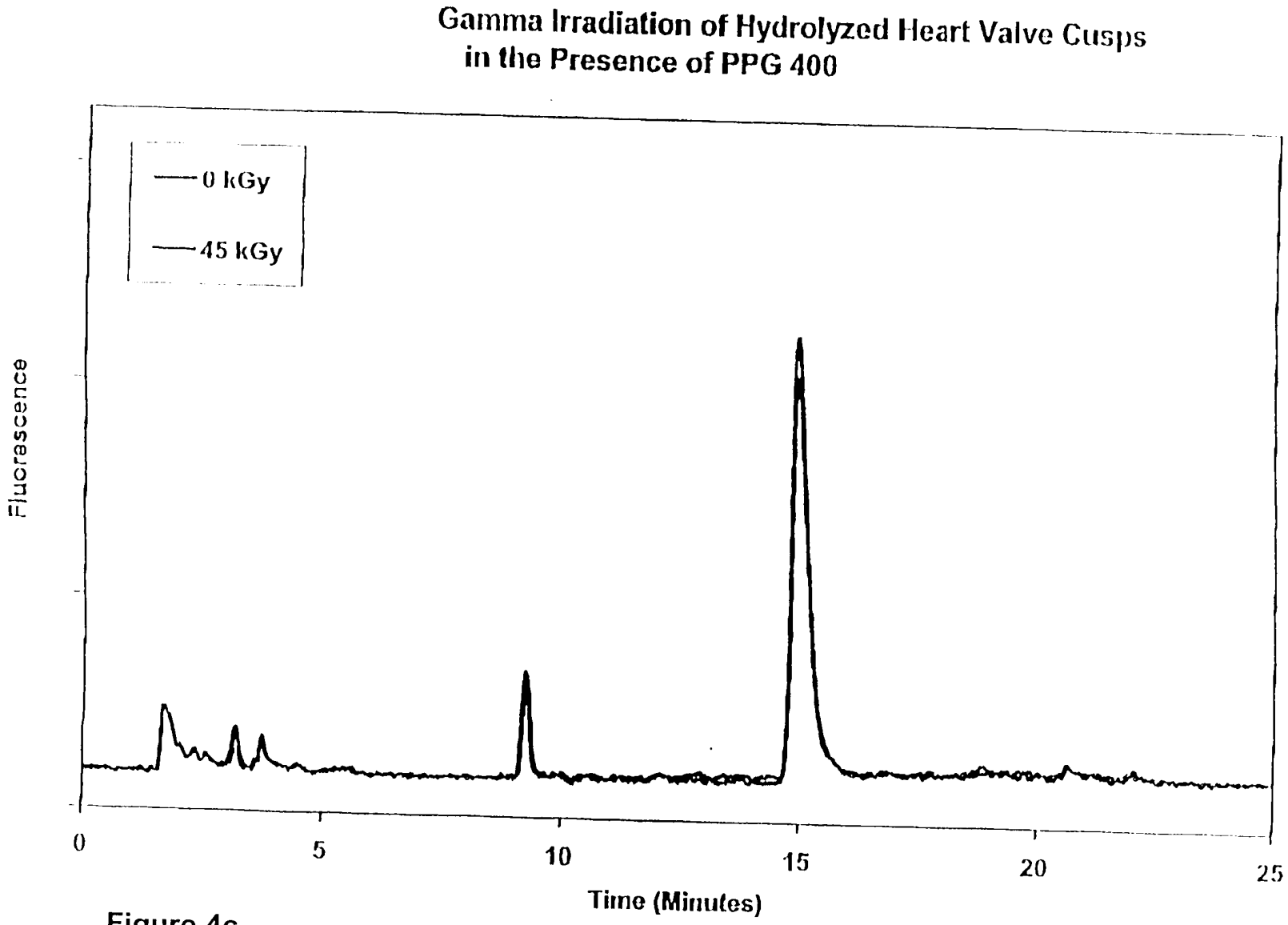

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
in the Presence of PPG 400
0 kGy
45 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 4c

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
Dehydrated with PPG 400 and Rehydrated in the Presence of
PBS and Ascorbate

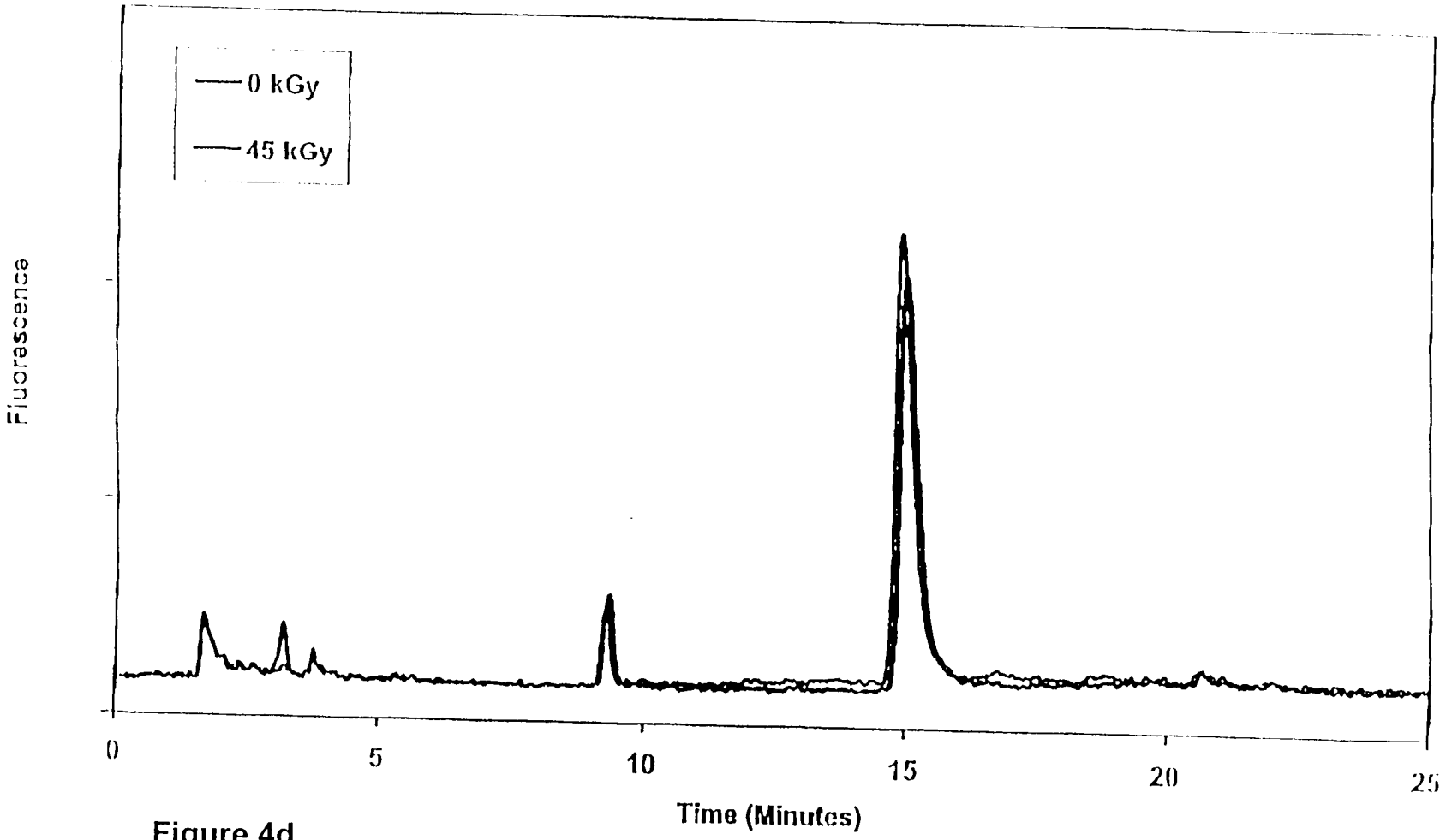


Figure 4d

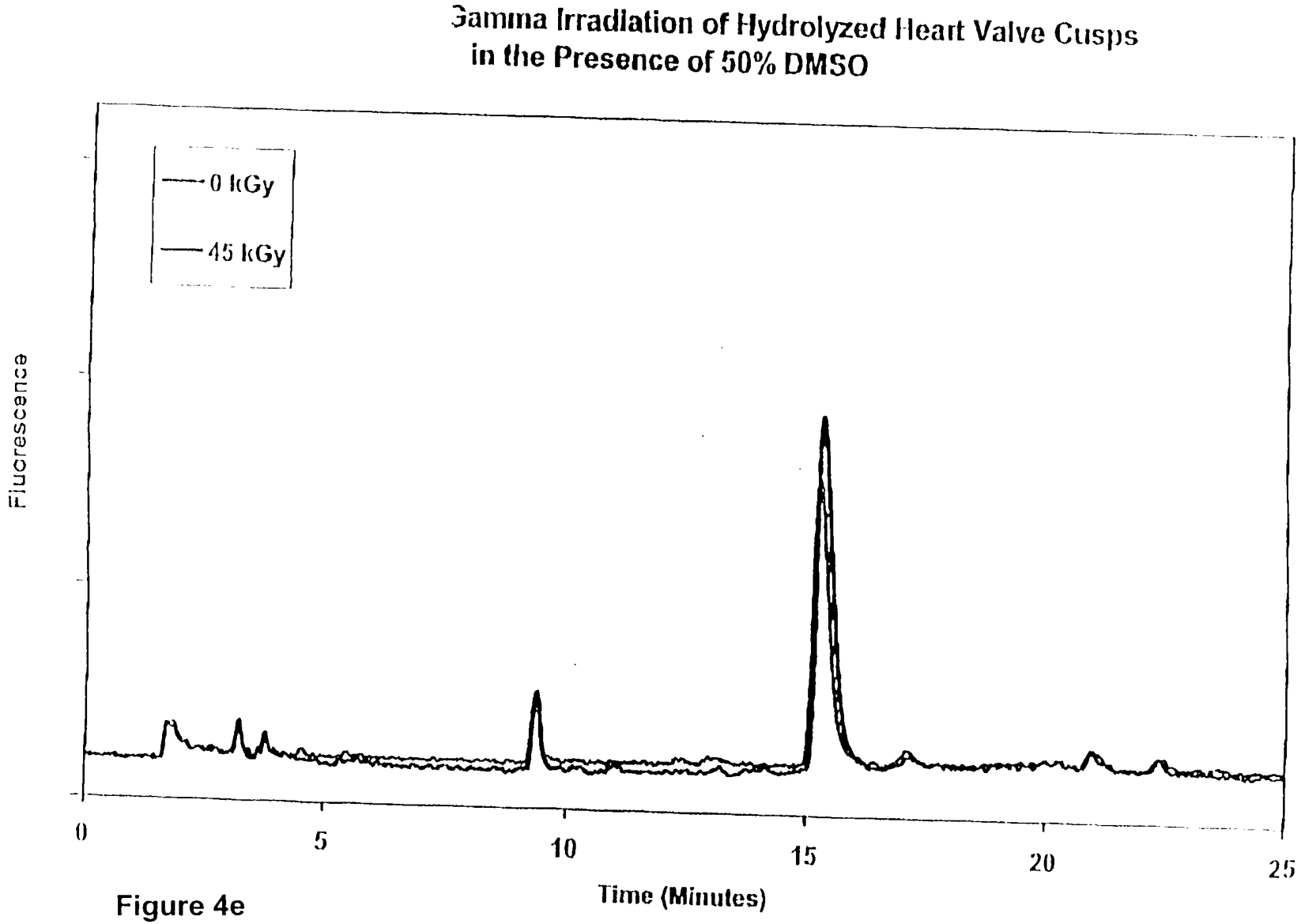

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
in the Presence of 50% DMSO
0 kGy
45 kGy
Fluorescence
0
5
10
15
20
25
Time (Minutes)

Figure 4e

Gamma Irradiation of Hydrolyzed Heart Valve Cusps
in the Presence of 50% DMSO and Ascorbate

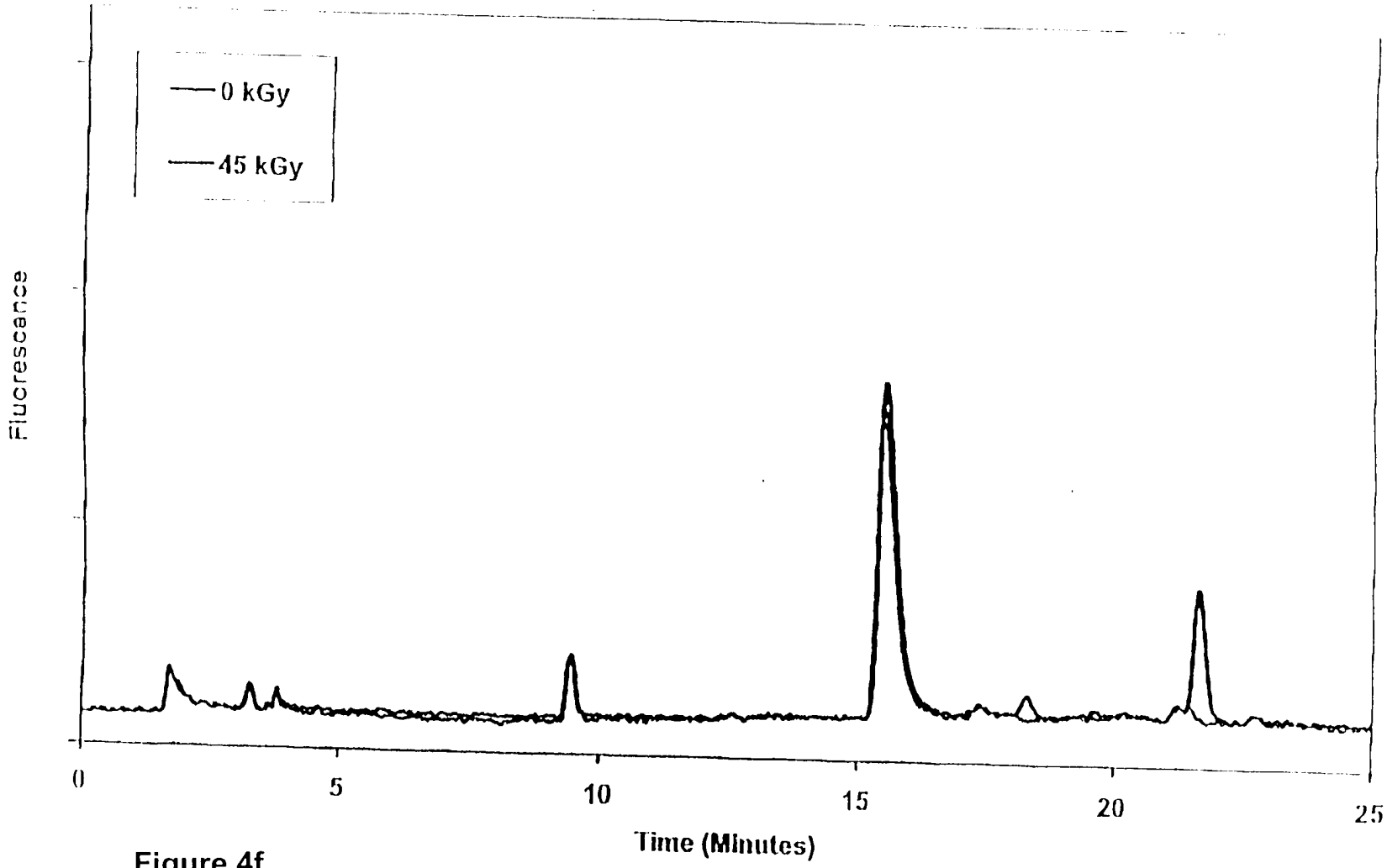
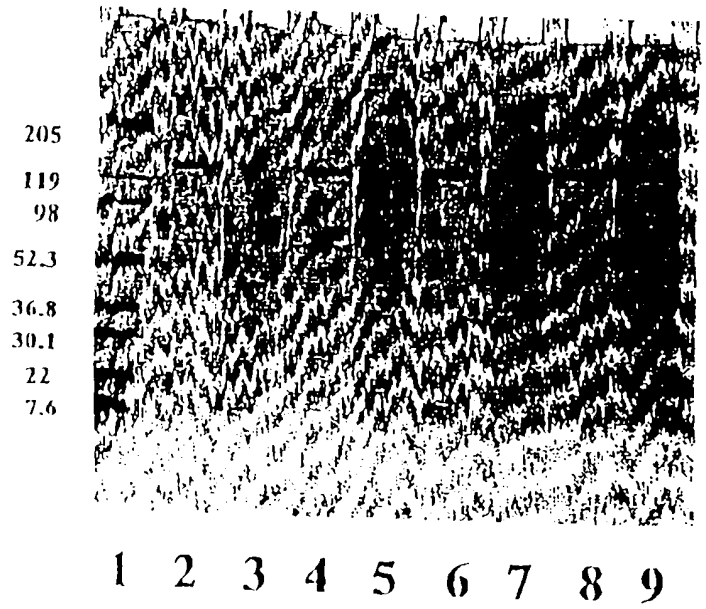


Figure 4f

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents



1. Molecular Weight Markers

2. PBS, 0 kGy

3. PBS, 45 kGy

4. PBS and Ascorbate, 0 kGy

5. PBS and Ascorbate, 45 kGy

6. PPG400, 0 kGy

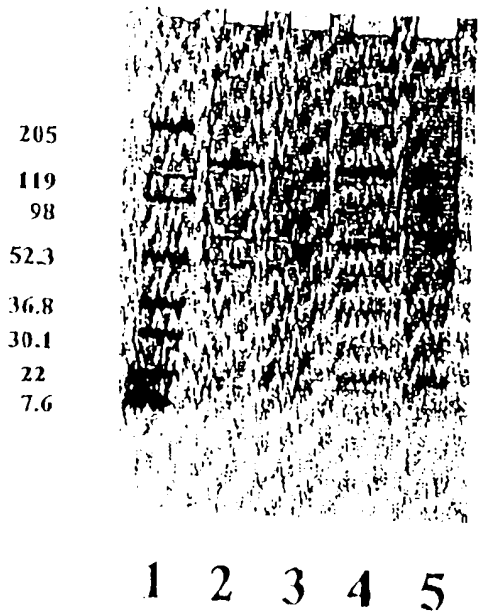
7. PPG400, 45 kGy

8. Dehydrated in PPG400 and Rehydrated with PBS and Ascorbate, 0 kGy

9. Dehydrated in PPG400 and Rehydrated with PBS and Ascorbate, 45 kGy

Figure 4g

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents



1. Molecular Weight Markers
2. 50% DMSO, 0 kGy
3. 50% DMSO, 45 kGy
4. 50% DMSO and Ascorbate, 0 kGy
5. 50% DMSO and Ascorbate, 45 kGy

Figure 4h